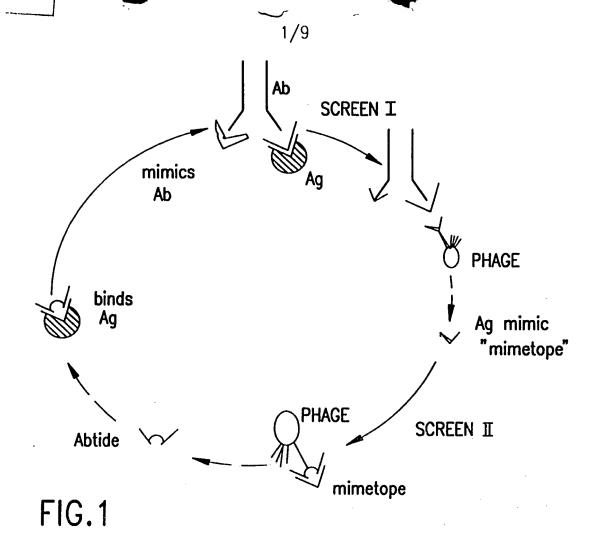
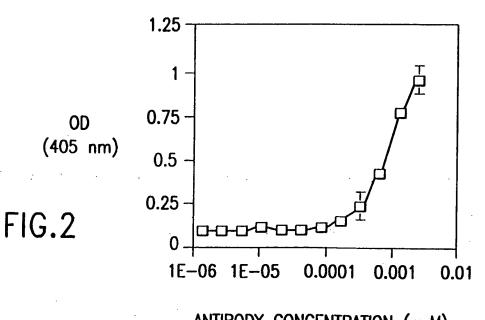
EU3CLASS





ANTIBODY CONCENTRATION (μ M)

CLONE 14

GIINANDPLPFWFMS--PYTPGPAPIDINASRALVS-NESG WQGTHFPYT LVSKNDSG

CDR3L

CDR2L

(5/9 = 55.5 %)

(7/8 = 87.5 %)

CLONE 17

DL-SRNLDFGRFLLYNA--YVPGFTPTFISLTAEHLSSPKG

LVSKN-DSG

WQGTHF-P-YT

CDR2L

CDR3L

(6/8 = 75 %)

(6/9 = 66.6 %)

CLONE 15

CGRAYCL-SGNYNIFGALFPGVS--TPYADVGHDDAQSWRR

LVSKN-DS-G WQG-THFPYT

CDR2L

CDR3L

(4/8 = 50 %) (6/9 = 66.6 %)

CLONE 13

RCSPIW-GIS-YPFGLLSSNPGVCHSSDAET-NIRNDILTT

WQG-THFPYT

GSDN-K-SVL

CDR3L

CDR2L(REV)

(6/9 = 66.6 %)

(4/8 = 50 %)

CLONE 16

GHSNYCFVSTLGMPIVGFP-SINARGLIHYGGSDPR--LAA

WQGTHFPYT

GSDNKSVL

CDR3L

CDR2L(REV)

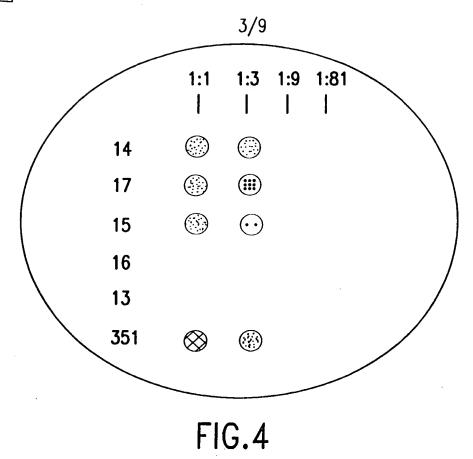
(3/9 = 33.3 %)

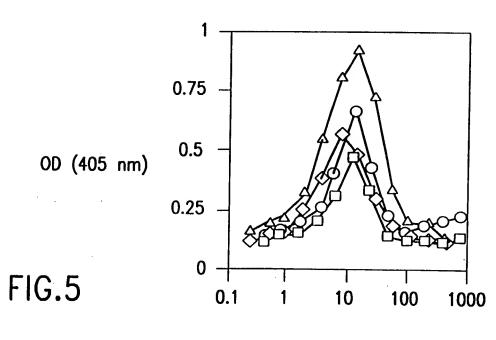
(5/8 = 62.5 %)

FIG.3

CTASASZE CIISO

CS454575.C11501





PEPTIDE CONCENTRATION (μ M)



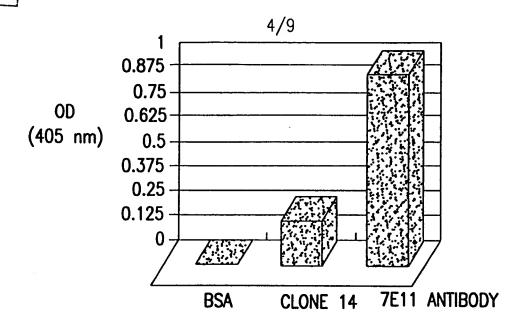


FIG.6

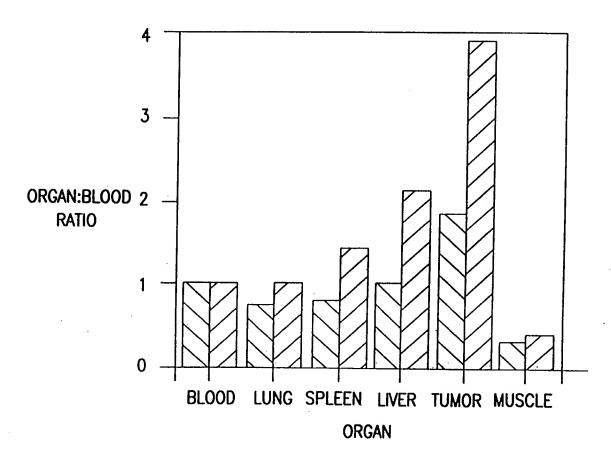
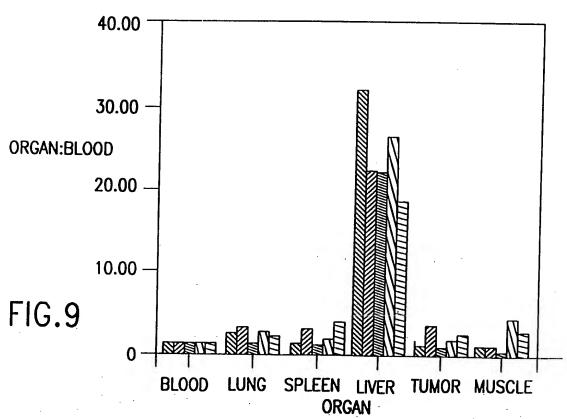


FIG.7

20.00



c.tgt.gcc.tcg.agB.(NNB)₁₂.Ncc.gcg.g

N=A,G,T,C B=G,T,C V=G,A,C

FILL IN WITH DNA POLYMERASE

99.cgc.cNV.(NNV)₁₂.aga.tct.cgt.gtc

Xho I

Ala

c.tgt.gcc.tcg.agB.(NNB)₁₂.Ncc.gcg.g

gg.cgc.cNV.(NNV)₁₂.aga.tct.cgt.gtc

Xba I

CLEAVE WITH Xho I + Xba I

tcg.agB.(NNB)₁₂.Ncc.gcg.g

99.cgc.cNV.(NNV)₁₂.tga.tc

LIGATE WITH Xho I + Xba I-CLEAVED M13 m663 VECTOR

ELECTROPORATE INTO XL1-BLUE

LIBRARY OF PIII-RANDOM SEQUENCE FUSION PROTEINS

SIGNAL PEPTIDASE CLEAVAGE SITE $\pi = S, P, T \square R A$

FIG. 10

G TGT GTC TCG AGN (NNB)20NAC GCC AN

N=A,C,G,T

B=C,G,T

V=A,C,G

NTG CGG TNV (NNV) AGA TCT GTG TTG

FILL IN WITH SEQUENASE

Xho I

G TGT GTC TCG AGN (NNB)20NAC GCC AN

NTG CGG TNV (NNV)₁₅ AGA TCT GTG TTG Xba I

RESTRICT WITH Xho I AND Xba I

TCG AGN (NNB)20 NAC GCC AN

NTG CGG TNV (NNV) $_{15}$ AGA TC

LIGATE WITH Xho I + Xba I-CLEAVED M13mp18Xa

ELECTROTRANSFORM
E. coli JS5

D38 GENETIC DIVERSITY LIBRARY DISPLAYED AS RANDOM N-TERMINAL PIII FUSIONS

. . H S $_{1}$ S (S/R) X $_{20}$ (Y/H/N/D) A (I/M/T/N/K/S/R) X $_{15}$ S R

SIGNAL PEPTIDASE CLEAVAGE SITE

DRAFIS:

G TGT GTC TCG AGN (NNB)20GGT TGT GGT

CCA ACA CCA (NNV)20 AGA TCT GTG TTG

N=A,C,G,T B=C,G,T V=A,C,G

FILL IN WITH SEQUENASE

Xho I

G TGT GTC TCG AGN (NNB)20GGT TGT GGT

CCA ACA CCA (NNV) AGA TCT GTG TTG

RESTRICT WITH Xho I AND Xba I

TCG AGN (NNB) GGT TGT GGT

CCA ACA CCA (NNV)20 AGA TC

| LIGATE WITH Xho I + Xba I-| CLEAVED M13mp18Xa

ELECTROTRANSFORM

DC43 GENETIC DIVERSITY LIBRARY DISPLAYED AS RANDOM N-TERMINAL PIII FUSIONS

. . H S₄S (S/R) X_{20} G C G X_{20} S R

SIGNAL PEPTIDASE CLEAVAGE SITE

A27.61 SUECLASS

MP-1 oligo 2

9/9